### **ERG** Testing in Clinical Practice

#### **ERG Case Review: Epiretinal Membrane**

Case ID: 11EM

Patient Work-Up	
Gender	Female
Age	60
Ethnicity	White
Complaints/Symptoms	Floaters, occasional visual disturbances
Personal History	Hypertension
Family History	None
Height / Weight	5f / 175Lb
ВР	174/91
Pulse	68
IOP (mmHg) OD	15
IOP (mmHg) OS	16
Refraction OD	+2.00 -1.00 x 155 +2.75
Refraction OS	+2.25 -2.00 x 180 +2.75
VCVA OD	20/25
VCVA OS	20/30
Preliminary Diagnosis	Hypertension, Cataract, Epiretinal Membrane (ERM)

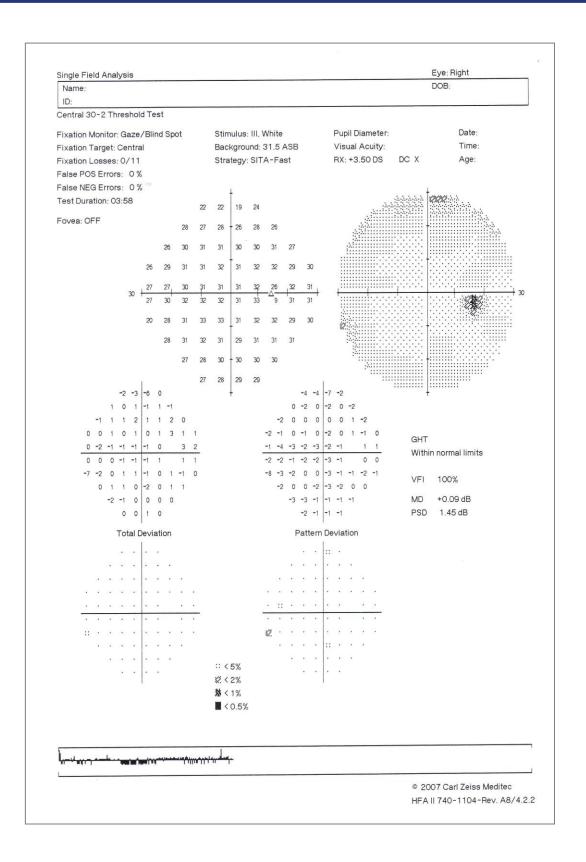
#### **Tests Performed**

- Visual Field: shows a normal response OU with good reliability.
- **OCT Macular Protocol:** reveals an increase of the internal limiting membrane in the foveal area and also some folds in OD parafoveal area.
- **ERG Concentric Stimulus Field Protocol:** shows abnormal waveform shapes for both OD and OS with Magnitude values within acceptable statistical ranges.
- **Slit Lamp Biomicroscopy:** (as described by the physician) reveals nuclear sclerosis, folds and rupture of Bowman's membrane and cellophane appearance in the macular area corresponding to the diagnosis of ERM on both eyes.

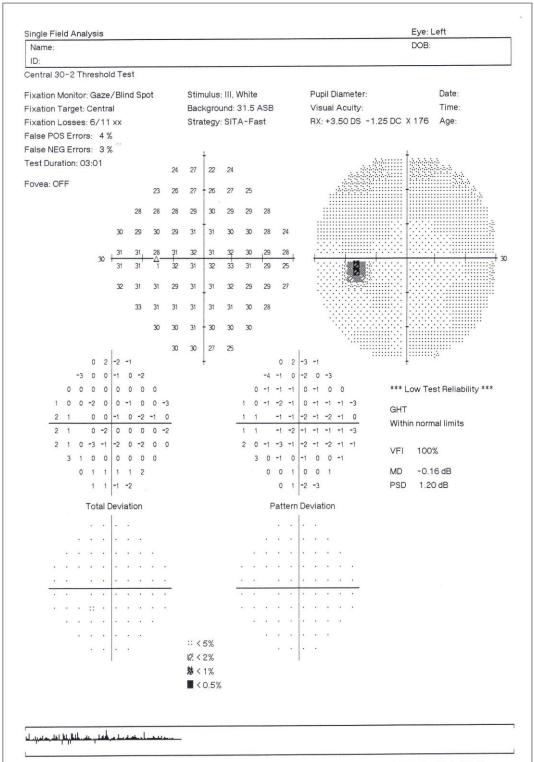
#### Conclusion

Patient complained of occasional visual disturbances. OCT findings are consistent with the diagnosis of ERM. Although the waveform shape of the pattern ERG does not show three equally spaced sinusoidal-like peaks, the quantitative magnitude data shows an acceptable functionality of the macular area. Currently the ERM does not impact the macular functionality. These results support the clinician's decision to follow the patient for possible progression of ERM.

### Visual Field - OD

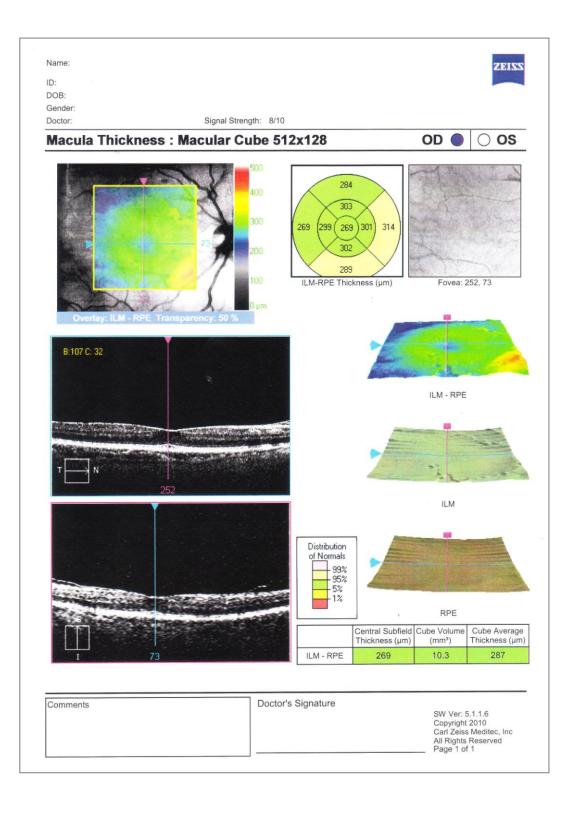


### Visual Field - OS

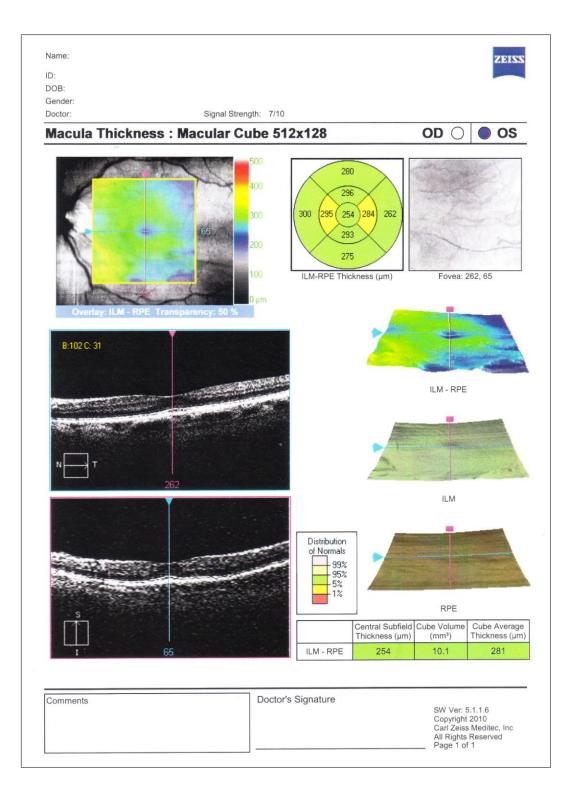


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## OCT - OD



# OCT - OS



## ERG – Concentric Stimulus Fields

